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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,386	12/19/2005	Junji Morita	070365-0019	1649
	7590 08/31/201 WILL & EMERY LL	EXAMINER		
600 13TH STR	*	MARTIN, ANGELA J		
WASHINGTO	N, DC 20005-3096		ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			08/31/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		A	pplication No.	Applicant(s)	Applicant(s)			
		1	0/561,386	MORITA ET AL.	MORITA ET AL.			
		E	xaminer	Art Unit				
		IA A	NGELA J. MARTIN	1795				
Period fo	The MAILING DATE of this commun or Reply	ication appear	s on the cover sheet w	ith the correspondence a	ddress			
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months a end patent term adjustment. See 37 CFR 1.704(b).	AILING DATE of 37 CFR 1.136(a) nunication. atutory period will ap will, by statute, cau:	E OF THIS COMMUNI In no event, however, may a ply and will expire SIX (6) MOI se the application to become A	CATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).	,			
Status								
1)⊠	Responsive to communication(s) file	ed on <i>15 June</i>	2010					
•			tion is non-final.					
3)	Since this application is in condition	<i>,</i> —		ters, prosecution as to th	ne merits is			
- /	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	Claim(s) 1-11 is/are pending in the a	application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)🖂	Claim(s) <u>1-11</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restric	tion and/or ele	ection requirement.					
Applicati	on Papers							
9)□	The specification is objected to by the	e Examiner.						
•	The drawing(s) filed on is/are:		ed or b) objected to	by the Examiner.				
,—	Applicant may not request that any object		·	-				
	Replacement drawing sheet(s) including				CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
/1	1.⊠ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
	e of References Cited (PTO-892)			Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO/SB/08)	PTO-948)		s)/Mail Date Informal Patent Application				
Paper No(s)/Mail Date 6) Other:								

Application/Control Number: 10/561,386 Page 2

Art Unit: 1795

DETAILED ACTION

This Office Action is responsive to the Amendment filed on June 15, 2010. The Applicant has amended claims 1-5 and 7-10; and added new claim 11. However, Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, this action is made final.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto et al. (Akira et al), JP 62-190660 (STIC translation), in view of Jia et al., US 2003/0224226.

Regarding claim 1, Matsumoto et al. teaches a fuel cell system composed of a fuel cell, a fuel supply system, an oxidant supply system, and a controller (p. 8, para. 2). The fuel supply system includes fuel valving for controlling the flow of fuel to an anode and a cathode (p. 8, para. 2-3). The oxidant supply system includes oxidant valving for controlling the flow of oxidant to the cathode (p. 8, para. 2). The controller is used to control the fuel and oxidant valving such that, during normal operation, fuel is supplied to the anode and that oxidant is supplied to the cathode (p. 10, para. 1). Matsumoto et al. also teaches that one may also consider running cycles partway through a storage

period or even at shutdown (p. 8, para. 3-4). Matsumoto et al. teaches that a controller can facilitate the start-up of a system after storage, control activities during normal system operations, and direct system activity during shutdown (p. 8, para. 3-4).

Regarding claim 2, Matsumoto et al. teaches raw material gas supplying means purges anode side inside fuel cell after purging cathode side (p. 8, last para.).

Regarding claim 3, Matsumoto et al. teaches a valving system, including a fuel gas on-off valve and a oxidizing agent gas on-off valve, and a raw (natural) material gas on-off valve (p. 7, last para.).

Regarding claim 4, Matsumoto et al. teaches cathode exhaust pipe, cathode offgas valve, purge via raw (natural) material gas valve (p. 8, first para.).

Regarding claim 5, Matsumoto et al. teaches an additional shutfoff valve in gas line (p. 8, first para.).

Regarding claim 6, Matsumoto et al. teaches oxidizing agent supplied to fuel gas and oxidizing agent gas to fuel cell by opening anode valve, opening fuel valve, opening cathode valve and opening oxidizing agent valve (p. 8, para. 2-3).

Regarding claim 7, Matsumoto et al. teaches method of starting fuel cell system including purging on cathode side with a raw material gas (p. 8, para. 1).

Regarding claim 8, Matsumoto et al. teaches anode is purged after purging cathode (p. 10, para. 1).

Jia et al.,, teaches a conditioning system for a fuel cell (abstract). Jia et al., teach a program which can be processed by a computer (0021-0023).

Art Unit: 1795

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to insert the teachings of Jia et al., into the teachings of Matsumoto et al., because Jia et al., specifically recite "conditioning" of the fuel cell system and teach a programmed system which may be repeatable.

Response to Arguments

3. Applicant's arguments with respect to above claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 10/561,386 Page 5

Art Unit: 1795

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANGELA J. MARTIN whose telephone number is (571)272-1288. The examiner can normally be reached on Monday-Friday from 10:00 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dah-Wei Yuan can be reached on 571-272-1295. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AJM Examiner, Art Unit 1795

/Dah-Wei D. Yuan/ Supervisory Patent Examiner, Art Unit 1795